PC25050A Information Disclosure Statement For Appln. No. 10/699,068



Certificate of Mailing (37 C.F.R. §1.8):
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Rachel Potash

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

QIYUE HU, et al.

Serial No.: 10/699,068

Confirmation No.: Not yet assigend

Filed: October 30, 2003

For: HIV-INTEGRASE INHIBITORS,

PHARMACEUTICAL COMPOSITIONS, AND

METHODS FOR THEIR USE

Group Art Unit: Not yet assigned

Examiner: Not yet assigned

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(b)

Commissioner For Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 CFR 1.56, Applicant brings the documents listed on the attached substitute Form PTO-1449 to the attention of the Examiner for consideration in connection with the examination of the above-identified application.

This Information Disclosure Statement is being filed within the period specified in 37 CFR 1.97(b)-i.e., (1) within three months of the filing date of the national application, (2) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application, or (3) to the undersigned's knowledge, before the mailing date of a first Office Action on the merits, whichever event occurs last.

It is respectfully requested that the Examiner confirm consideration of the cited documents by initialing the attached substitute Form PTO-1449 and returning a copy of the initialed form to the Applicant.

If any fees are due in connection with the filing of this statement, including the fee set forth in 37 CFR 1.17(p) in the event that the period specified in 37 CFR 1.97(b) has elapsed, please charge all required fees to Deposit Account No. 500329.

Respectfully submitted,

Date:

7 January 2004

Jeffrey W. Rennecker Attorney For Applicant Registration No. 40,784

Agouron Pharmaceuticals, Inc./A Pfizer Company Patent Department 10777 Science Center Drive San Diego, California 92121

Phone: (858) 622-8807 Fax: (858) 678-8233

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Substitute for form 1449/PTO JC100 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)

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First Named Inventor	Qiyue Hu		
Art Unit	Not yet assigned		
Examiner Name	Not yet assigned		
Attorney Docket Number	PC25050A		

U.S. PATENT DOCUMENTS					
EXAMINER INITIAL	Cite No. 1	DOCUMENT Publication Date NUMBER MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ²			
	AA	60/422,513	10-31-2002	Michael Bruno Plewe, et al.	
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FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL	Cite No. 1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ ⁸
	AB	WO 02/070491	12/09/2003	Shionogi & Co., Ltd.		

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Initials	ner Cite No.1 Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²	
	AC	ABDEL-MAGID, A.F., et al., "Reductive Amination of Aldehydes and Ketones by Using Sodium Triacetoxyborohydride," <i>Tetrahedron Letters</i> , 1990, 5595-5598, Vol. 31, No. 39.		
	AD	ABDEL-MAGID, et al., "Reductive Amination of Aldehydes and Ketones with Sodium Triacetoxyborohydride," <i>Journal of Organic Chemistry</i> , 1996, 3849-3862, Vol. 61.		
	AE	BAGSHAWE, K., "Antibody-Directed Enzyme Prodrug Therapy: A Review," <i>Drug Development Research</i> , 1995, 220-230, Vol. 34.		
	AF	BERTOLINI, et al., "A New Rational Hypothesis for the Pharmacophore of the Active Metabolite of Leflunomide, a Potent Immonsuppresive Drug," <i>Journal of Medicinal Chemistry</i> , 1997, 2011-2016, Vol. 40.		
•	AG	BIERE, H., et al., "Ein einfacher Zugang zum Pyrrolo[1,2-c]pyrimidin und Pyrrolo[3,2-c]pyridin- System," Liebigs Ann. Chem., 1987, 491-497.		
•	AH	BLATT, A. H., et al., <u>Organic. Synthesis, Collective Volume 2</u> ., 1943, 67, Vol. 2, John Wiley & Sons, New York.		
	AI	BODOR, "Novel Approaches to the Design of Safer Drugs: Soft Drugs and Site-Specific Chemical Delivery Systems," <i>Advances in Drug Research</i> , 1984, 255-331, Vol. 13. BREWSTER, J., et al., "Carbon-Carbon Alkylations with Amines and Ammonium Salts," <u>Organic Reactions</u> , Vol. VII, 1953, 99-197, Vol. 7.		
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	AK	BUNDGAARD, <u>Design of Prodrugs</u> , 1985, Elsevier Press, New York.		
	AL	BUTLER, S.L., et al., "A quantitative assay for HIV DNA integration in vivo," Nature Medicine, May 2001, 631-634, Vol. 7, No 5.		
	AM	CAIN, M., et al., "Biomimetic Approach to Potential Benzodiazepine Agonists and Antagonists," Heterocycles, 1982, 1003-1007, Vol. 19, No. 6.		
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	AP	COKER, J.N., et al., "The Cyanomethylation of Indole," <i>Journal of Organic Chemistry</i> , 1963, 589-590, Vol. 28.	
	AQ	DEAR, et al., "Mass directed peak selection, an efficient method of drug metabolite identification using directly coupled liquid chromatography – mass spectrometry – nuclear magnetic resonance spectroscopy," <i>Journal of Chromatography B</i> , 2000, 281-293. Vol. 748.	
	AR	DEBYSER, Z., et al., "Assays for the Evaluation of HIV-1 Integrase Inhibitors," Methods in Molecular Biology, 2001, 139-155, Vol. 160, Schein, C.H. (ed.), Humana Press, Inc., Totawa, NJ.	
	AS	DEKHANE, M., et al., "A Practical Synthesis of 1h-Pyroolo[2,3-c]Pyridine-5-Carboxylic Acid Derivatives From Pyrrole-2-Carboxaldehydes," <i>Tetrahedron</i> , 1993, 8139-8146, Vol. 49, No. 36.	
	AT	DODD, R.H., et al., "The Oxidation of Aromatic Aldehydes to Carboxylic Acids Using Hydrogen Peroxide in Formic Acid," <i>Synthesis</i> , 1993, 295-297.	
	AU	DODD, R.H., et al., "Synthesis and Pharmacological Activity of a Pyrido [3',4':5,4]Pyrrolo[1,2-c]-c[1,4] Benzodiazepine-3, 10-Dione, A New Benzodiazepine-ß-Carboline Type Hybrid Molecule," <i>Heterocycles</i> , 1989, 1101-1113, Vol. 28, No. 2.	
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	AZ	GREENE, T.W., <u>Protective Groups in Organic Chemistry</u> ,"3 rd Edition, 1999, 531-537, John Wiley & Sons.	
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	ВВ	GUZMAN, F., et al., "Biomimetic Approach to Potential Benzodiazepine Receptor Agonists and Antagonists," <i>Journal of Medicinal Chemistry</i> , 1984, 564-570, Vol. 27.	
	ВС	HANSEN, M. S., et al., "Integration complexes derived from HIV vectors for rapid assays in vitro," <i>Nature Biotechnology</i> , June 1999, 578-582, Vol. 17, No. 6.	
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	BD	HAZUDA, D., et al., "Discovery and Analysis of Inhibitors of the Human Immunodeficiency Integrase," <i>Drug Design and Discovery</i> , 1997, 17-24, Vol. 15.
	BE	HENN, L., et al., "Formation of Indoles, Isoquinolines, and Other Fused Pyridines from Azidocrylates," <i>J. Chem. Soc. Perkin Trans.</i> , 1984, 2189-2196, Vol. 1.
	BF	HUGHES, D., "Progress in the Mitsunobu Reaction. A Review," <i>Org. Prep. Proced. Int.,</i> 1996, 127-164, Vol. 28.
	BG	JENKINS, T.M., et al., "A Soluble Active Mutant of HIV-1 Integrase," Journal of Biological Chemistry, 1996, 7712-7718, Vol. 271, Vol. 13.
	вн	KANTLEHNER, W., et al., "Umsetzungen von <i>tert</i> -Butoxy- <i>N,N,N</i> ¹ , <i>N</i> ¹ -tetramethylmethandiamin mit NH- und CH-aciden Verbingdungen," <i>Liebigs Ann. Chem.</i> , 1980, 344-357.
	ВІ	KELLEY, J.L., et al., "Attempted Inhibition of Histidine Decarboxylase with β-Alkyl Analogues of Histidine," <i>Journal of Medicinal Chemistry</i> , 1977, 721-723, Vol. 20, No. 5.
٠,	BJ	KOZIKOWSKI, A. P., et al., "Use of N,N-Dimethyl(Methylene)Ammonium Chloride in the Functionalization of Indoles," <i>Heterocycles</i> , 1980, 55-58, Vol. 14, No. 1.
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	BN	LARSEN, "Design and Application of Prodrugs." <i>Drug Design and Development</i> , 1991, Krogsgaard-Larsen et al., Eds., Harwood Academic Publishers, Chur, Switzerland.
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	BQ	MARCH, JERRY, <u>Advanced Organic Chemistry</u> , 5 TH Edition, 2001, 508-511, John Wiley & Sons, Inc., New York, NY.

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E	3R	MARCH, JERRY, <u>Advanced Organic Chemistry</u> , 5 TH Edition, 2001, 911-914, John Wiley & Sons, New York, NY.
E	38	MATAKA, S., et al., "Condensation Reaction of 3,4-Dibenzoyl-1-methyl-2,5-diphenylpyrrole and – 1-phenylpyrazole with Methylamine Derivatives Affording Pyrrolo [3,4-c]pyridine and 2 <i>H</i> -Pyrazolo[3,4-c]- and [4,3-c]pyridines," <i>J. Heterocyclic. Chem.</i> , 1981, 1073-1075, Vol. 18.
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E	3V	PAIS, G.C.G., et al., "Structure Activity of 3-Aryl-1,3-diketo-Containing Compounds as HIV-1 Integrase Inhibitors," <i>Journal of Medicinal Chemistry</i> , 2002, 3184-3194, Vol. 45.
E	3W	PROX, et al., "Rapid Structure Elucidation of Drug Metabolites by Use of Stable Isotopes," <i>Xenobiotica.</i> , 1973, 103-112, Vol. 3, No. 2.
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(CA	SHAFIEE, A., et al., "Synthesis of 2-Aryl-6-carbethoxythiazolo[4,5-c]pyridine and 7-Chloro-2-phenylthiazolo[5,4-c]pyridine [1]," <i>J. Heterocyclic Chem.</i> , 1986, 1171-1173, Vol. 23.
	СВ	SHAN, D., et al., "Prodrug Strategies Based on Intramolecular Cyclization Reactions," <i>Journal of Pharmaceutical Science</i> , 1997, 765-767, Vol. 86, No. 7.
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	CD	SOERENS, D., et al., "Study of the Pictet-Spengler Reaction in Aprotic Media: Synthesis of the β-Galactosidase Inhibitor, Pyridindolol," <i>Journal of. Organic Chem</i> istry, 1979, 535-545, Vol. 44, No. 4.

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	CE	SPRAUL, et al., "Liquid chromatography coupled with high-field proton NMR for profiling human urine for endogenous compounds and drug metabolites," <i>Journal of Pharmaceutical & Biomedical Analysis</i> , 1992, 601-605, Vol. 10, No. 8.
	CF	STILL, et al., "Rapid Chromatographic Technique for Preparative Separations with Moderate Resolution," <i>Journal of Organic Chemistry</i> , 1978, 2923-2925, Vol. 43, No. 14.
	CG	SUNDBERG, R.J., et al., "Syntheses with N-Protected 2-Lithioindoles," <i>Journal of Organic Chemistry</i> , 1973, 3324-3330, Vol. 38, No. 19.
	СН	TERWILLIGER, E.F., et al., "Construction and use of a replication-competent human immunodeficiency virus (HIV-1) that expresses the chloramphenicol acetryltransferase enzyme," <i>PNAS</i> , 1989, 3857-3861, Vol. 86.
	CI	TROUT, G., et al., "Synthesis of Some Histidine Analogs and Their Effect on the Growth of a Histidine-Requiring Mutant of <i>Leuconostoc mesenteroides</i> ," <i>Journal of Medicinal Chemistry</i> , 1972, 1259-1261, Vol. 15, No. 12.
	CJ	WAI, J.S., et al., "4-Aryl-2,4-dioxobutanoic Acid Inhibitors of HIV-1 Integrase and Viral Replication in Cells," <i>Journal of Medicinal Chemistry</i> , 2000, 4923-4926, Vol. 43, No 26.
, i,	СК	WEISLOW, O.S., et al., "New Soluble-Formazan Assay for HIV-1 Cytopathic Effects: Application to High-Flux Screening of Synthetic and Natural Products for AIDS-Antiviral Activity," <i>J. Natl. Cancer Inst.</i> , 1989, 577-586, Vol. 81, No. 8.
•	CL	YOUNG, S.D., "Inhibition of HIV-1 integrase by small molecules: The potential for a new class of AIDS chemotherapeutics," <i>Curr. Opin. Drug Disc. & Development</i> , 2001, 402-410, Vol. 4 No.4.

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